

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

501176.01

APPLICATION NO.

not yet assigned

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT(S)

Joseph M. Jeddeloh and Terry R. Lee

FILING DATE

Concurrently herewith

GROUP ART UNIT

not yet assigned

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MOB	AA	US 2002/0112119 A1	August 15, 2002	Halbert et al.			March 13, 2002
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
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	AM							
	AN							
	AO							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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	AQ	
	AR	

EXAMINER

Michael Q B

DATE CONSIDERED

12/21/05

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FORM PTO-1449 (REV. 7-80)  <b>INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. <b>501176.01</b>	APPLICATION NO. <b>10/601,222</b>
	APPLICANT(S) <b>Joseph J. Jeddeloh et al.</b>		
	FILING DATE <b>June 20, 2003</b>	GROUP ART UNIT <b>2818</b>	

## U.S. PATENT DOCUMENTS

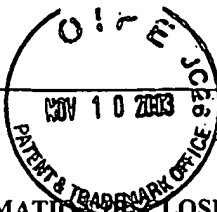
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MJB	AA	5,251,303	10/05/93	Fogg, Jr. et al.	395	275	
MJB	AB	5,432,907	07/11/95	Picazo, Jr. et al.	395	200	
MJB	AC	5,442,770	08/15/95	Barratt	395	403	
MJB	AD	5,497,476	03/05/96	Oldfield et al.	395	439	
MJB	AE	5,659,798	08/19/97	Blumrich et al.	395	846	
MJB	AF	5,875,352	02/23/99	Gentry et al.	395	843	
MJB	AG	6,061,263	05/09/00	Boaz et al.	365	51	
MJB	AH	6,073,190	06/06/00	Rooney	710	56	
MJB	AI	6,105,075	08/15/00	Ghaffari	710	5	
MJB	AJ	6,137,709	10/24/00	Boaz et al.	365	51	
MJB	AK	6,144,587	11/07/00	Yoshida	365	189.05	
MJB	AL	6,167,465	12/26/00	Parvin et al.	710	22	
MJB	AM	6,167,486	12/26/00	Lee et al.	711	120	
MJB	AN	6,201,724 B1	03/13/01	Ishizaki et al.	365	49	
MJB	AO	6,233,376 B1	05/15/01	Updegrove	385	14	
MJB	AP	6,243,769 B1	06/05/01	Rooney	710	56	
MJB	AQ	6,285,349 B1	09/04/01	Smith	345	147	
MJB	AR	6,301,637 B1	10/09/01	Krull et al.	711	112	
MJB	AS	6,327,642 B1	12/04/01	Lee et al.	711	120	
MJB	AT	6,330,205 B2	12/11/01	Shimizu et al.	365	230.06	
MJB	AU	6,347,055 B1	02/12/02	Motomura	365	189.05	
MJB	AV	6,349,363 B2	02/19/02	Cai et al.	711	129	
MJB	AW	6,356,573 B1	03/12/02	Jonsson et al.	372	46	
MJB	AX	6,367,074 B1	04/02/02	Bates et al.	717	11	

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## U.S. PATENT DOCUMENTS


*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MTB	AY	6,373,777 B1	04/16/02	Suzuki	365	230.03	
MTB	AZ	6,381,190 B1	04/30/02	Shinkai	365	230.03	
MTB	BA	6,421,744 B1	07/16/02	Morrison et al.	710	22	
MTB	BB	6,434,639 B1	08/13/02	Haghighi	710	39	
MTB	BC	6,463,059 B1	10/08/02	Movshovich et al.	370	389	
MTB	BD	6,470,422 B2	10/22/02	Cai et al.	711	129	
MTB	BE	6,473,828 B1	10/29/02	Matsui	711	104	
MTB	BF	6,477,614 B1	11/05/02	Leddige et al.	711	5	
MTB	BG	6,477,621 B1	11/05/02	Lee et al.	711	120	
MTB	BH	6,496,909 B1	12/17/02	Schimmel	711	163	
MTB	BI	6,505,287 B2	01/07/03	Uematsu	711	170	
MTB	BJ	6,539,490 B1	03/25/03	Forbes et al.	713	401	
MTB	BK	6,552,564 B1	04/22/03	Forbes et al.	326	30	
MTB	BL	6,587,912 B2	07/01/03	Leddige et al.	711	5	
MTB	BM	6,594,713 B1	07/15/03	Fuoco et al.	710	31	
MTB	BN	2003/0043426 A1	03/06/03	Baker et al.	359	109	
	BO						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	BP							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

MTB	BQ	Micron Technology, Inc., "Synchronous DRAM Module 512MB/1GB (x72, ECC) 168-PIN Registered FBGA SDRAM DIMM, Micron Technology, Inc., 2002, pp. 1-23.						
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MJB	AA	6,067,262	05/23/00	Irrinki et al.	365	201	
MJB	AB	6,246,618 B1	06/12/01	Yamamoto et al.	365	200	
MJB	AC	6,590,816 B2	07/08/03	Perner	365	200	
	AD						
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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MTB	AA	5,818,844	10/06/98	Singh et al.	370	463	
MTB	AB	6,272,609	08/07/01	Jeddeloh	711	169	
MTB	AC	6,477,592	11/05/02	Chen et al.	710	52	
MTB	AD	6,523,092	02/18/03	Fanning	711	134	
MTB	AE	6,523,093	02/18/03	Bogin et al.	711	137	
MTB	AF	6,622,227	09/16/03	Zumkehr et al.	711	167	
MTB	AG	6,631,440	10/07/03	Jenne et al.	711	105	
MTB	AH	2002/0144064	10/03/02	Fanning	711	144	
MTB	AI	2003/0005223	01/02/03	Coulson et al.	711	118	
MTB	AJ	2003/0229770	12/11/03	Jeddeloh	711	213	
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## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

MTB	AT	Intel, "Intel 840 Chipset: 82840 Memory Controller Hub (MCH)", Datasheet, October 1999, pp. 1-178.
	AU	

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MTB	AA	6,462,978 B2	10/08/02	Shibata et al.	365	63	
	AB						
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## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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	AU	

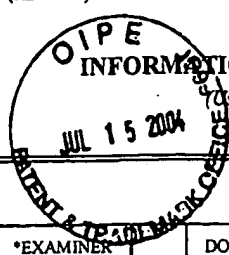
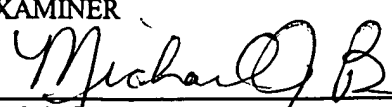
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<b>U.S. PATENT DOCUMENTS</b>							
*EXAMINER INITIAL	AA	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MJB	AA	5,544,319	08/06/96	Acton et al.	395	200.07	
MJB	AB	5,822,255	10/13/98	Uchida	365	194	
MJB	AC	5,875,454	02/23/99	Craft et al.	711	113	
MJB	AD	6,033,951	03/07/00	Chao	438	253	
MJB	AE	6,079,008	06/20/00	Clery, III	712	11	
MJB	AF	6,186,400 B1	02/13/01	Dvorkis et al.	235	462.45	
MJB	AG	6,243,831 B1	06/05/01	Mustafa et al.	714	24	
MJB	AH	6,256,692 B1	07/03/01	Yoda et al.	710	104	
MJB	AI	6,392,653 B1	05/21/02	Malandain et al.	345	501	
MJB	AJ	6,438,668 B1	08/20/02	Esfahani et al.	711	165	
MJB	AK	6,636,110 B1	10/21/03	Ooishi et al.	327	565	
MJB	AL	6,681,292 B2	01/20/04	Creta et al.	711	119	
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<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
MJB	AU	"Free On-Line Dictionary of Computing" entry 'Flash Erasable Programmable Read-Only Memory, online May 17, 2004 [ <a href="http://foldoc.doc.ic.ac.uk/foldoc/foldoc.cgi?flash+memory">http://foldoc.doc.ic.ac.uk/foldoc/foldoc.cgi?flash+memory</a> ]					
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MJB	AA 4,707,823	11/17/87	Holdren et al.	370	1	
MJB	AB 4,930,128	05/29/90	Suzuki et al.	371	12	
MJB	AC 5,241,506	08/31/93	Motegi et al.	365	210	
MJB	AD 5,243,703	09/07/93	Farmwald et al.	395	325	
MJB	AE 5,269,022	12/07/93	Shinjo et al.	395	700	
MJB	AF 5,317,752	05/31/94	Jewett et al.	395	750	
MJB	AG 5,319,755	06/07/94	Farmwald et a.	395	325	
MJB	AH 5,355,391	10/11/94	Horowitz et al.	375	36	
MJB	AI 5,432,823	07/11/95	Gasbarro et al.	375	356	
MJB	AJ 5,465,229	11/07/95	Bechtolsheim et al.	345	477	
MJB	AK 5,502,621	03/26/96	Schumacher et al.	361	760	
MJB	AL 5,566,325	10/15/96	Bruce, II et al.	395	494	
MJB	AM 5,577,220	11/19/96	Combs et al.	395	416	
MJB	AN 5,581,767	12/03/96	Katsuki et al.	395	800	
MJB	AO 5,606,717	02/25/97	Farmwald et al.	395	856	
MJB	AP 5,638,334	06/10/97	Farmwald et al.	365	230.03	
MJB	AQ 5,715,456	02/03/98	Bennett et al.	395	652	
MJB	AR 5,819,304	10/06/98	Nilsen et al.	711	5	
MJB	AS 5,928,343	07/27/99	Farmwald et al.	710	104	
MJB	AT 5,973,935	10/26/99	Schoenfeld et al.	361	813	
MJB	AU 5,973,951	10/26/99	Bechtolsheim et al.	365	52	
MJB	AV 6,029,250	02/22/00	Keeth	713	400	
MJB	AW 6,061,296	05/09/00	Ternullo, Jr., et al.	365	233	
MJB	AX 6,098,158	08/01/00	Lay et al.	711	162	

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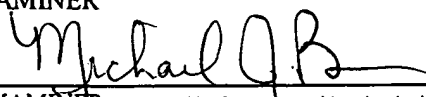
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MJB	AY	6,125,431	09/26/00	Kobayashi	711	154	
MJB	AZ	6,175,571 B1	01/16/01	Haddock et al.	370	423	
MJB	BA	6,185,352 B1	02/06/01	Hurley	385	114	
MJB	BB	6,247,107 B1	06/12/01	Christie	711	216	
MJB	BC	6,256,692 B1	07/03/01	Yoda et al.	710	104	
MJB	BD	6,294,937 B1	09/25/01	Crafts et al.	327	158	
MJB	BE	6,370,068 B2	04/09/02	Rhee	365	196	
MJB	BF	6,401,213 B1	06/04/02	Jeddeloh	713	401	
MJB	BG	6,430,696 B1	08/06/02	Keeth	713	503	
MJB	BH	6,434,696 B1	08/13/02	Kang	713	2	
MJB	BI	6,434,736 B1	08/13/02	Schaecher et al.	716	17	
MJB	BJ	6,479,322 B2	11/12/02	Kawata et al.	438	109	
MJB	BK	6,490,188 B2	12/03/02	Nuxoll et al.	365	63	
MJB	BL	6,629,220 B1	09/30/03	Dyer	711	158	
MJB	BM	6,646,929 B1	11/11/03	Moss et al.	365	194	
MJB	BN	6,662,304 B2	12/09/03	Keeth et al.	713	400	
MJB	BO	6,667,895 B2	12/23/03	Jang et al.	365	63	
MJB	BP	6,721,195 B2	04/13/04	Brunelle et al.	365	63	
MJB	BQ	6,724,685 B2	04/20/04	Braun et al.	365	233	
MJB	BR	6,735,679 B1	05/11/04	Herbst et al.	711	167	
MJB	BS	6,745,275 B2	06/01/04	Chang	710	305	
MJB	BT	6,751,703 B2	06/15/04	Chilton	711	113	

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MTB	BU	6,756,661 B2	06/29/04	Tsuneda et al.	257	673	
MTB	BV	6,771,538 B2	08/03/04	Shukuri et al.	365	185.05	
MTB	BW	6,792,059 B2	09/14/04	Yuan et al.	375	354	
MTB	BX	6,799,246 B1	09/28/04	Wise et al.	711	117	
MTB	BY	6,804,764 B2	10/12/04	LaBerge et al.	711	170	
MTB	BZ	6,807,630 B2	10/19/04	Lay et al.	713	2	
MTB	CA	6,816,947 B1	11/09/04	Huffman	711	151	
MTB	CB	2001/0039612 A1	11/08/01	Lee	713	2	
MTB	CC	2002/0116588 A1	08/22/02	Beckert et al.	711	161	
MTB	CD	2003/0043158 A1	03/06/03	Wasserman et al.	345	545	
MTB	CE	2003/0093630 A1	05/15/03	Richard et al.	711	154	
MTB	CF	2003/0163649 A1	08/28/03	Kapur et al.	711	146	
MTB	CG	2003/0177320 A1	09/18/03	Sah et al.	711	158	
MTB	CH	2003/0193927 A1	10/16/03	Hronik	370	351	
MTB	CI	2004/0022094 A1	02/05/04	Radhakrishnan et al.	365	200	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
MTB	CI	WO 93/19422	09/30/93	PCT				
MTB	CK	EP0849685A2	06/24/98	EP				

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

MTB	CL	Intel, "Flash Memory PCI Add-In Card for Embedded Systems", Application Note AP-758, September, 1997, pp. i-13.						
MTB	CM	Shanley, T. et al., "PCI System Architecture", Third Edition, Mindshare, Inc., 1995, pp. 24-25.						

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MJB	AA	4,045,781	08/30/77	Levy et al.	364	200	
MJB	AB	4,240,143	12/16/80	Besemer et al.	364	200	
MJB	AC	4,245,306	01/13/81	Besemer et al.	364	200	
MJB	AD	4,253,144	02/24/81	Bellamy et al.	364	200	
MJB	AE	4,253,146	02/24/81	Bellamy et al.	364	200	
MJB	AF	4,724,520	02/09/88	Athanas et al.	364	200	
MJB	AG	5,461,627	10/24/95	Rypinski	370	95.2	
MJB	AH	5,479,370	12/26/95	Furuyama et al.	365	189.12	
MJB	AI	5,729,709	03/17/98	Harness	395	405	
MJB	AJ	5,832,250	11/03/98	Whittaker	395	471	
MJB	AK	5,966,724	10/12/99	Ryan	711	105	
MJB	AL	5,978,567	11/02/99	Rebane et al.	395	200.49	
MJB	AM	6,023,726	02/08/00	Saksena	709	219	
MJB	AN	6,076,139	06/13/00	Welker et al.	711	104	
MJB	AO	6,134,624	10/17/00	Burns et al.	710	131	
MJB	AP	6,191,663 B1	02/20/01	Hannah	333	17.3	
MJB	AQ	6,249,802 B1	06/19/01	Richardson et al.	709	200	
MJB	AR	6,405,280 B1	06/11/02	Ryan	711	105	
MJB	AS	6,438,622 B1	08/20/02	Haghighi et al.	710	1	
MJB	AT	6,449,308 B1	09/10/02	Knight, Jr. et al.	375	212	
MJB	AU	6,453,393 B1	09/17/02	Holman et al.	711	154	
MJB	AV	6,501,471 B1	12/31/02	Venkataraman et al.	345	424	
MJB	AW	6,594,722 B1	07/15/03	Willke, II et al.	710	313	
MJB	AX	6,598,154 B1	07/22/03	Vaid et al.	712	237	
MJB	AY	6,615,325 B2	09/02/03	Mailloux et al.	711	154	

EXAMINER

Michael J. B.

DATE CONSIDERED

12/21/05

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

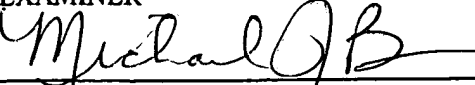
FORM PTO-1449 (REV. 7-9)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 501176.01	APPLICATION NO. 10/601,222
<b>INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>		APPLICANT(S) <b>Joseph M. Jeddeloh et al.</b>	
		FILING DATE June 20, 2003	GROUP ART UNIT 2818

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MJB	AZ	6,628,294 B1	09/30/03	Sadowsky et al.	345	568	
MJB	BA	6,658,509 B1	12/02/03	Bonella et al.	710	100	
MJB	BB	6,697,926 B2	02/24/04	Johnson et al.	711	167	
MJB	BC	6,718,440 B2	04/06/04	Maiyuran et al.	711	137	
MJB	BD	6,728,800 B1	04/27/04	Lee et al.	710	54	
MJB	BE	6,735,682 B2	05/11/04	Segelken et al.	711	220	
MJB	BF	6,754,812 B1	06/22/04	Abdallah et al.	712	234	
MJB	BG	6,760,833 B1	07/06/04	Dowling	712	34	
MJB	BH	6,775,747 B2	08/10/04	Venkatraman	711	137	
MJB	BI	6,789,173 B1	09/07/04	Tanaka et al.	711	147	
MJB	BJ	6,792,496 B2	09/14/04	Aboulenein et al.	710	306	
MJB	BK	6,795,899 B2	09/21/04	Dodd et al.	711	137	
MJB	BL	6,799,268 B1	09/28/04	Boggs et al.	712	228	
MJB	BM	6,804,760 B2	10/12/04	Williams	711	170	
MJB	BN	6,820,181 B2	11/16/04	Jeddeloh et al.	711	169	
MJB	BO	6,823,023 B1	11/23/04	Hannah	375	296	

## FOREIGN PATENT DOCUMENTS

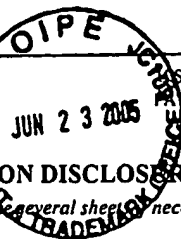
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
MJB	BP	WO 02/27499 A2	04/04/02	PCT				
	BQ							

EXAMINER 	DATE CONSIDERED 12/21/05
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FORM PTO-1449  
(REV. 7-80)

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
501176.01APPLICATION NO.  
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APPLICANT(S)

Joseph M. Jeddeloh et al.

FILING DATE  
June 20, 2003GROUP ART UNIT  
2818

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MJB	AA	4,953,930	09/04/90	Ramsey et al.	350	96.11	
MJB	AB	5,987,196	11/16/99	Noble	385	14	
MJB	AC	6,031,241	02/29/00	Silfvast et al.	250	504 R	
MJB	AD	6,421,744 B1	07/16/02	Morrison et al.	710	22	
MJB	AE	6,715,018 B2	03/30/04	Farnworth et al.	710	300	
MJB	AF	6,811,320 B1	11/02/04	Abbott	385	58	
MJB	AG	6,821,029 B1	11/23/04	Grung et al.	385	92	
MJB	AH	6,845,409 B1	01/18/05	Talagala et al.	710	20	
MJB	AI	2003/0149809 A1	08/07/03	Jensen et al.	710	22	
MJB	AJ	2004/0126115 A1	07/01/04	Levy et al.	398	116	
MJB	AK	2004/0144994 A1	07/29/04	Lee et al.	257	200	
MJB	AL	2004/0236885 A1	11/25/04	Fredriksson et al.	710	100	
MJB	AM	2005/0071542 A1	03/31/05	Weber et al.	711	105	
	AN						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
MJB	AO	2001265539 A	09/28/01	Japan (+ English Abstract)			X	
	AP							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AQ	
	AR	

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